

Appendix 5-10: STA Vegetation Survey Results

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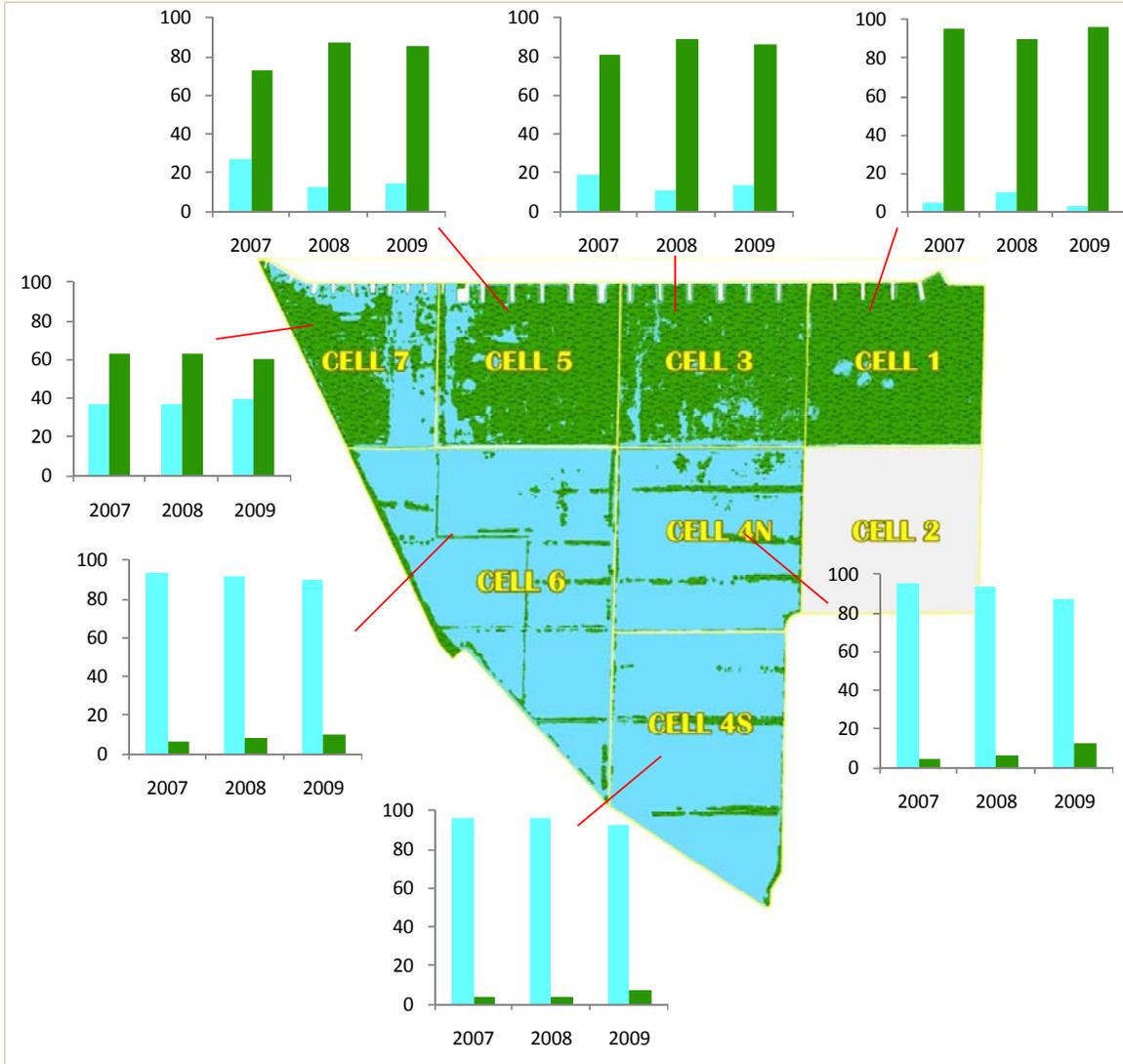


Figure 1. Changes in percent vegetation coverage in Stormwater Treatment Area 1 East (STA-1E) (2007–2009) based on aerial images. Blue bars and map area represent submerged aquatic vegetation (SAV)-open water and green bars and map area represent emergent aquatic vegetation (EAV). The map shows vegetation coverage from the 2009 aerial images. Compiled by the SFWMD.

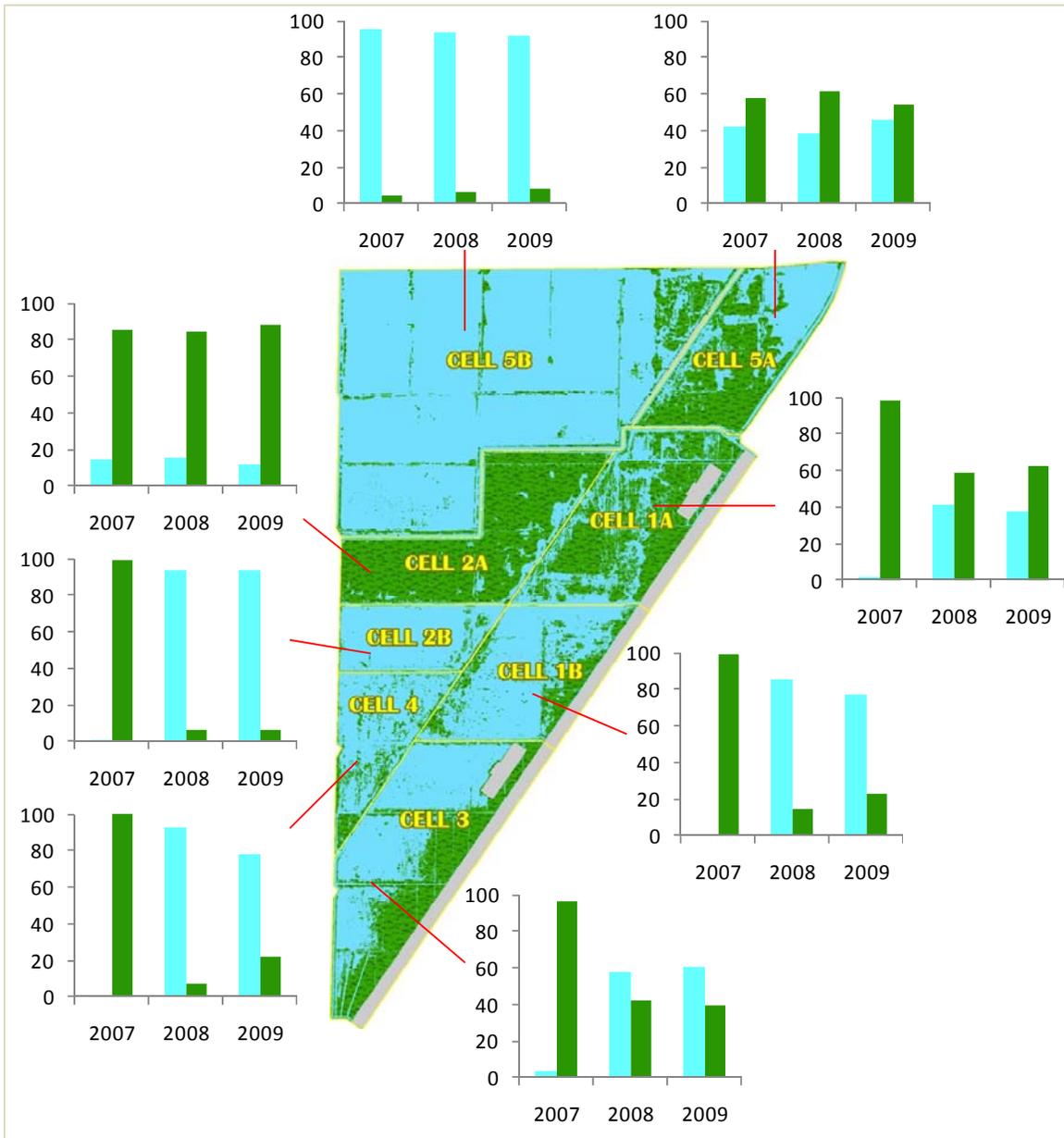


Figure 2. Changes in percent vegetation coverage in Stormwater Treatment Area 1 West (STA-1W) (2007–2009) based on aerial images. Blue bars and map area represent SAV-open water and green bars and map area represent EAV. The map shows vegetation coverage from the 2009 aerial images. Compiled by the SFWMD.

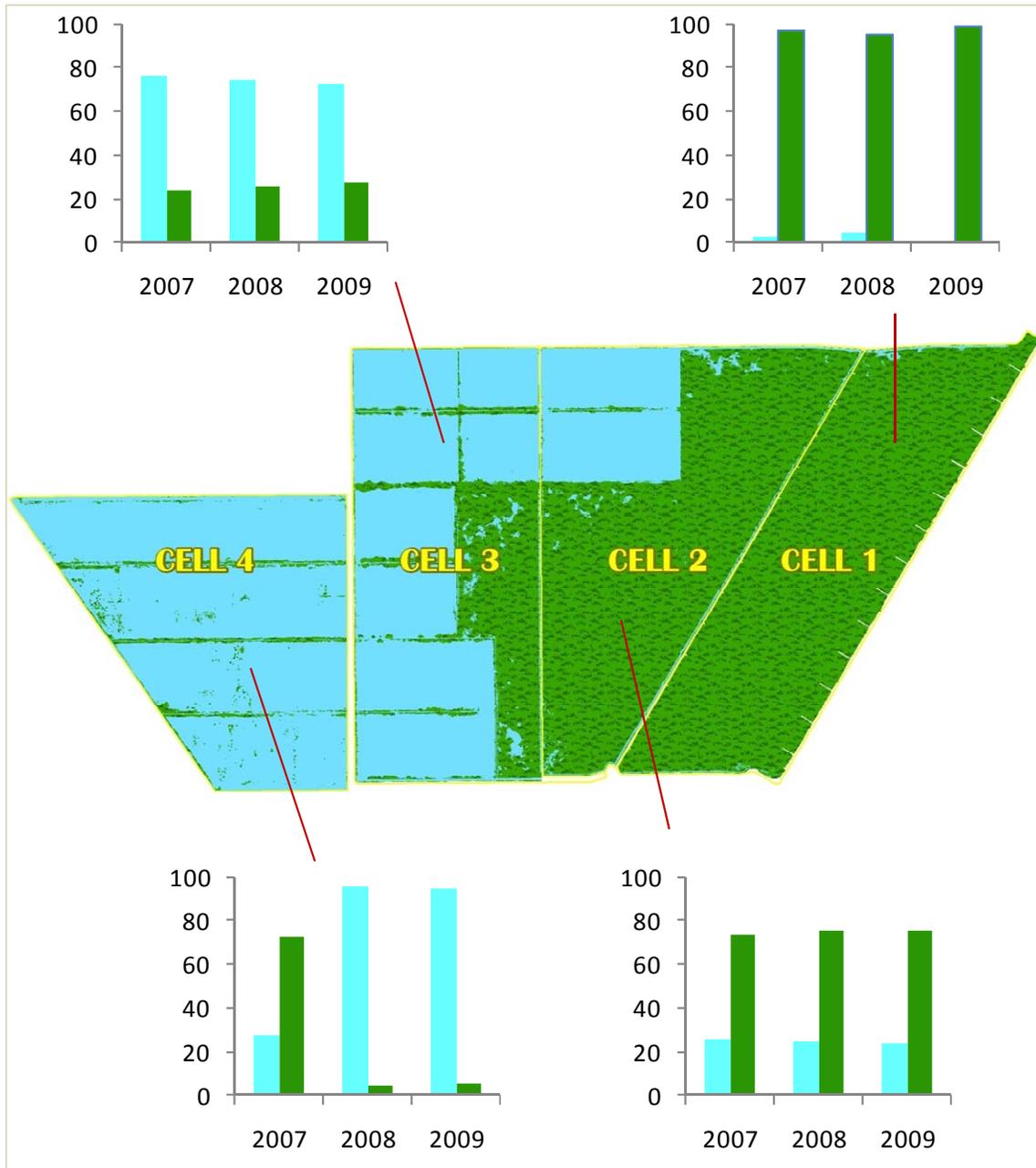


Figure 3. Changes in percent vegetation coverage in Stormwater Treatment Area 2 (STA-2) (2007–2009) based on aerial images. Blue bars and map area represent SAV-open water and green bars and map area represent EAV. The map shows vegetation coverage from the 2009 aerial images. Compiled by the SFWMD.

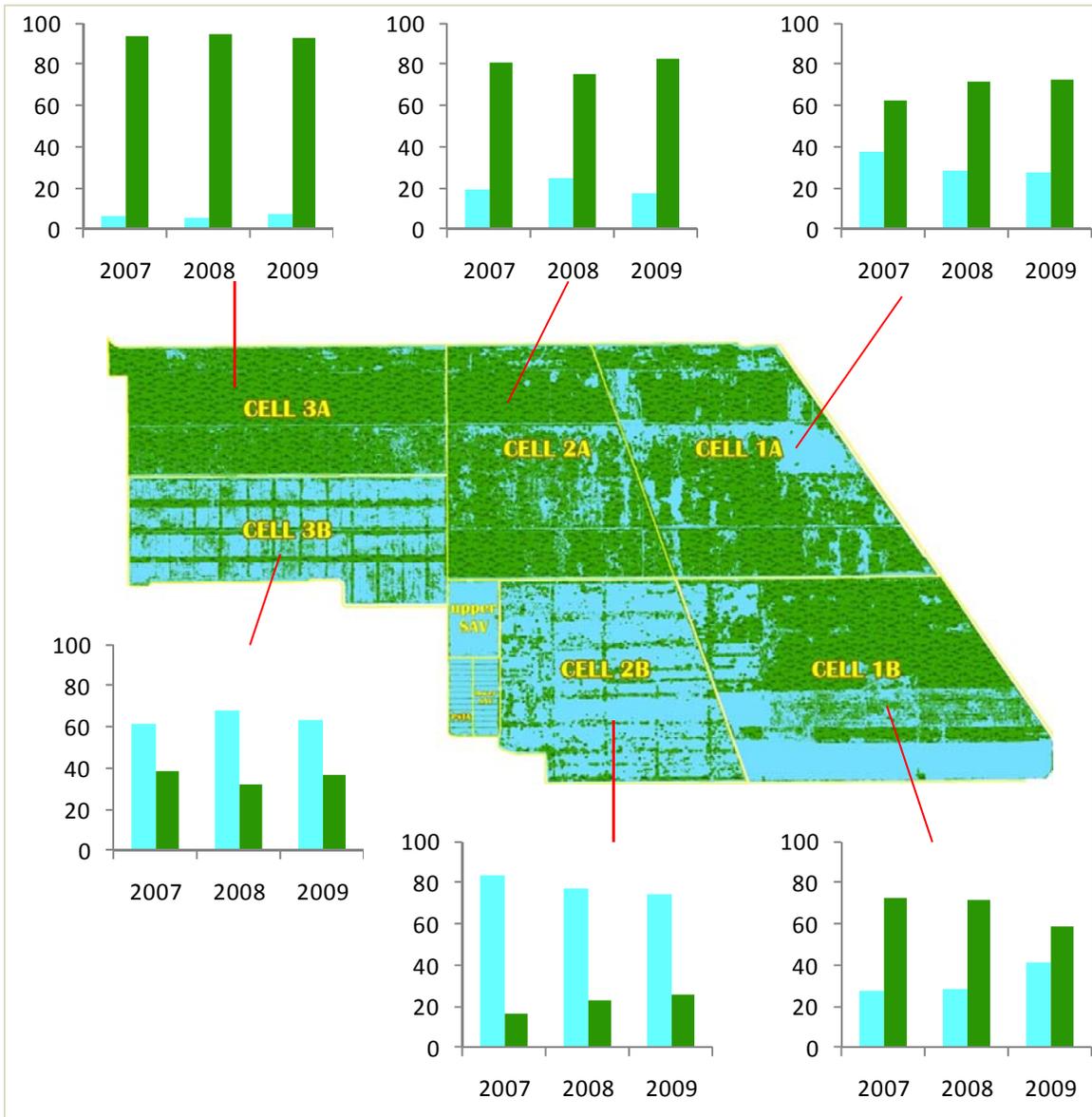


Figure 4. Changes in percent vegetation coverage in Stormwater Treatment Area 3/4 (STA-3/4) (2007-2009) based on aerial images. Blue bars and map area represent SAV-open water and green bars and map area represent EAV. The map shows vegetation coverage from the 2009 aerial images.
Compiled by the SFWMD.

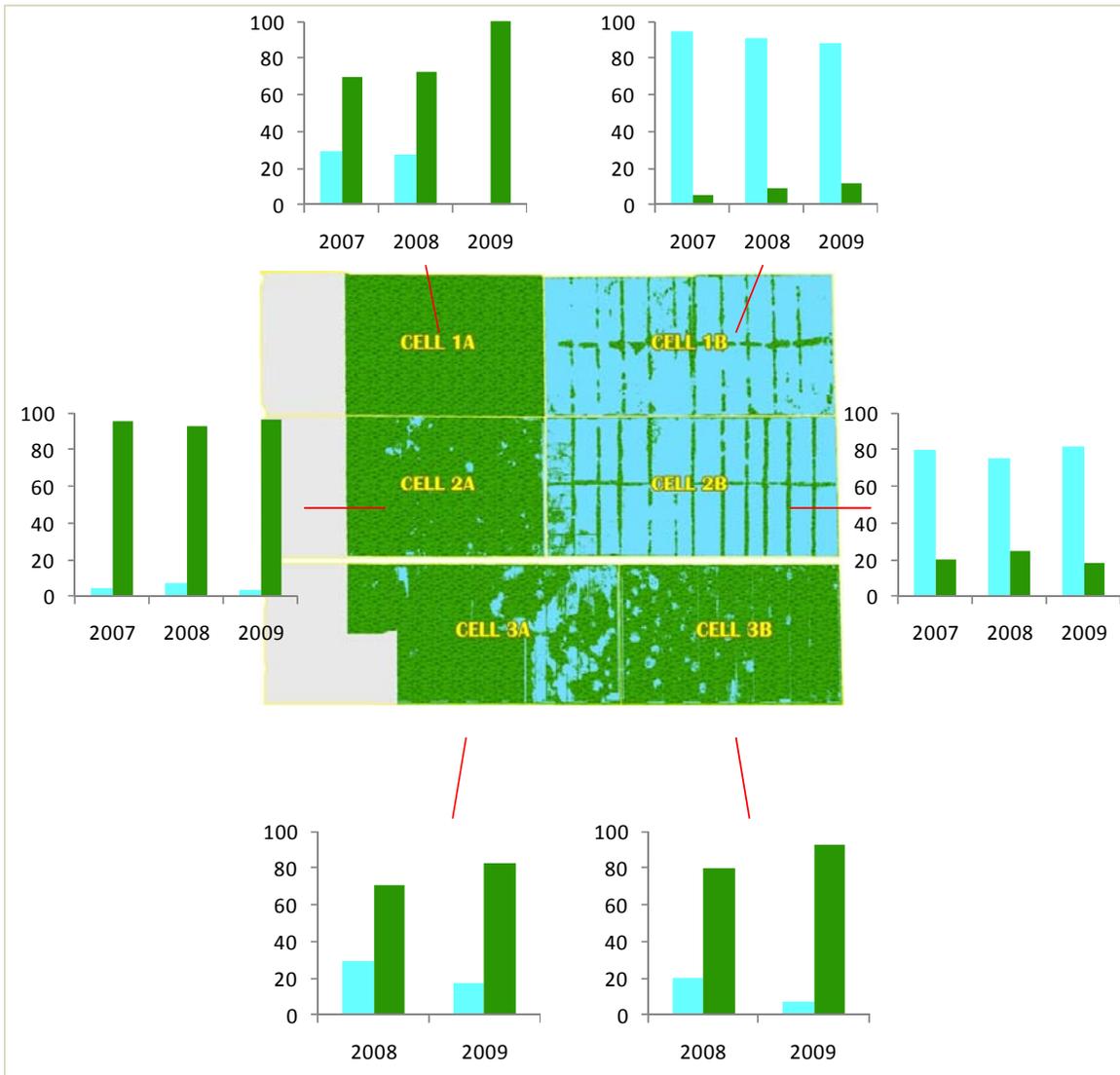


Figure 5. Changes in percent vegetation coverage in Stormwater Treatment Area 5 (STA-5) (2007–2009) based on aerial images. Blue bars and map area represent SAV-open water and green bars and map area represent EAV. The map shows vegetation coverage from the 2009 aerial images. Compiled by the SFWMD.

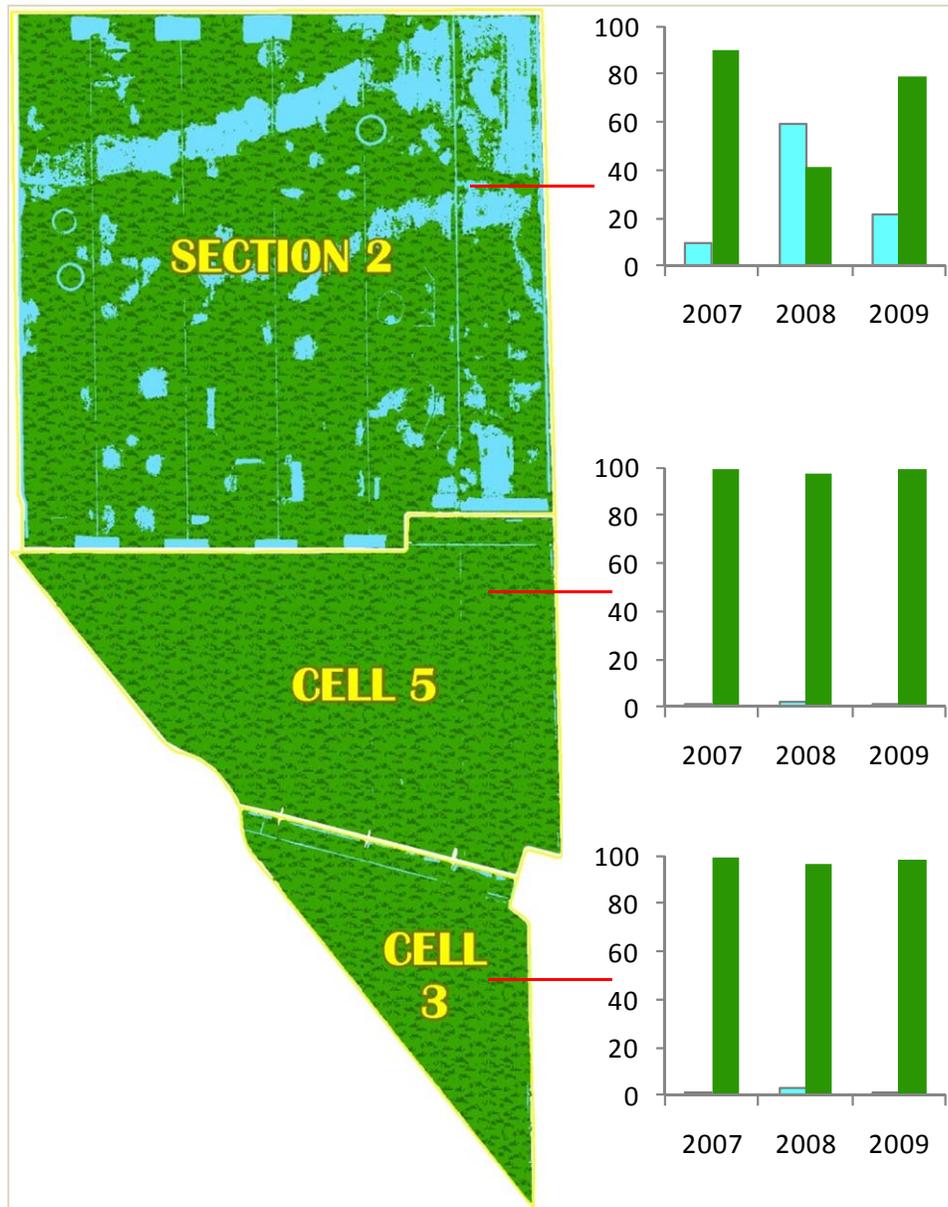


Figure 6. Changes in percent vegetation coverage in Stormwater Treatment Area 6 (STA-6) (2007–2009) based on aerial images. Blue bars and map area represent SAV-open water and green bars and map area represent EAV. The map shows vegetation coverage from the 2009 aerial images.
Compiled by the SFWMD.

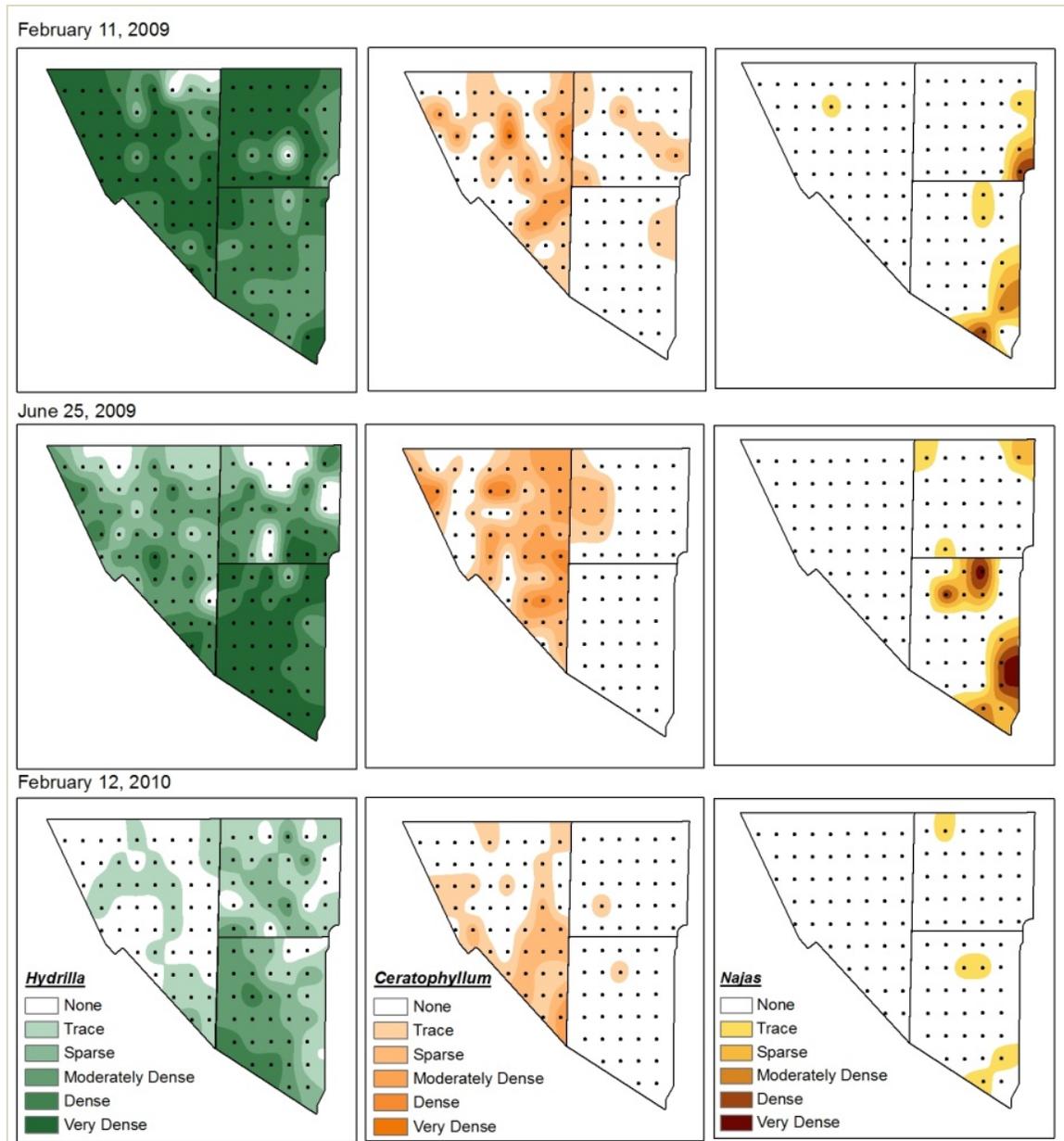


Figure 7. Changes in SAV cover in STA-1E (February 2009–February 2010) compiled from field surveys conducted by the Everglades Agricultural Area Environmental Protection District (EAA-EPD). Darker colors represent higher vegetation densities. SAV measurement locations are depicted by the black dots. Cell 6 is to the left, and Cells 4N and 4S are to the right in each schematic. The flow direction is from top to bottom in each flow path.

Legend Notes:

- None – no SAV present (0 percent)
- Trace – strands of SAV (0-1 percent)
- Sparse – patchy, small beds (1-10 percent)
- Moderately dense – semi-continuous, moderate to small beds (10-40 percent)
- Dense – continuous beds (40-80 percent)
- Very Dense – continuous thick beds (>80 percent)

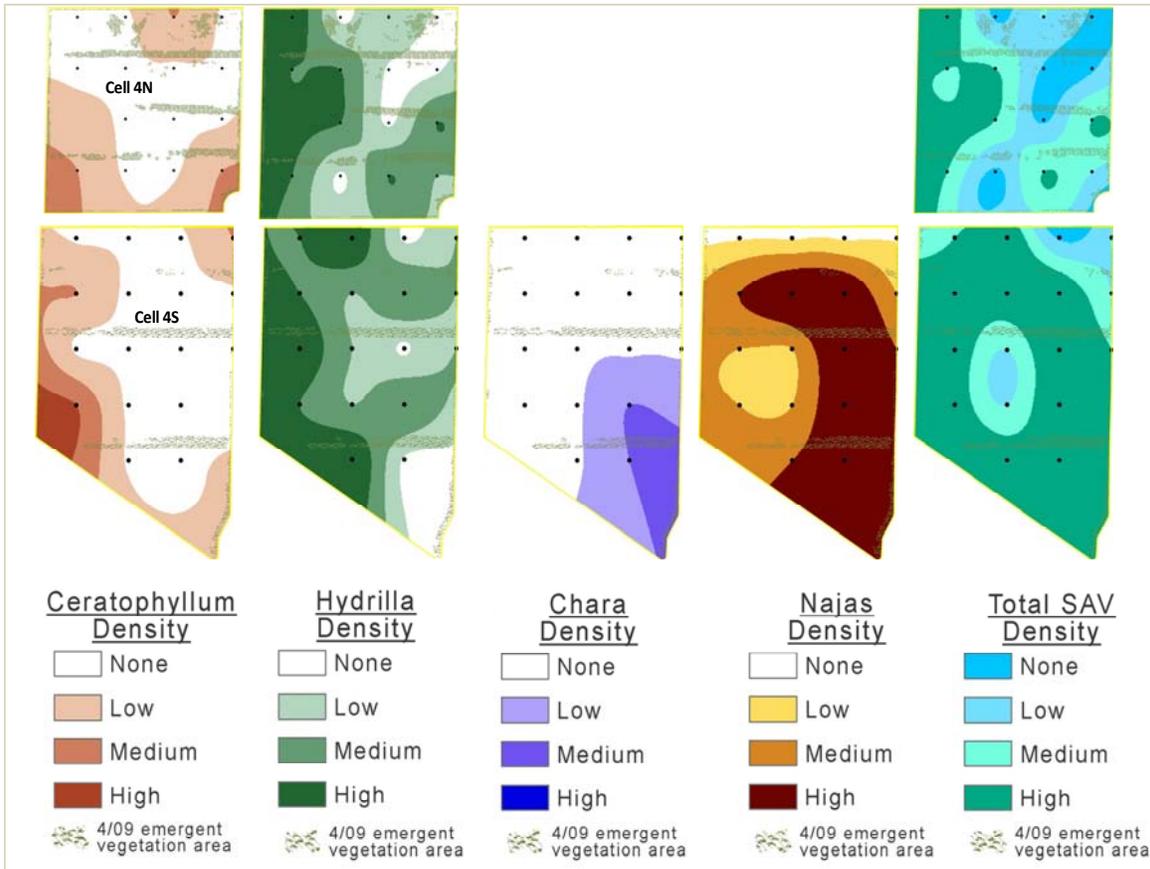


Figure 8. Additional SAV survey results for STA-1E, Cells 4N and 4S (May 27, 2010).

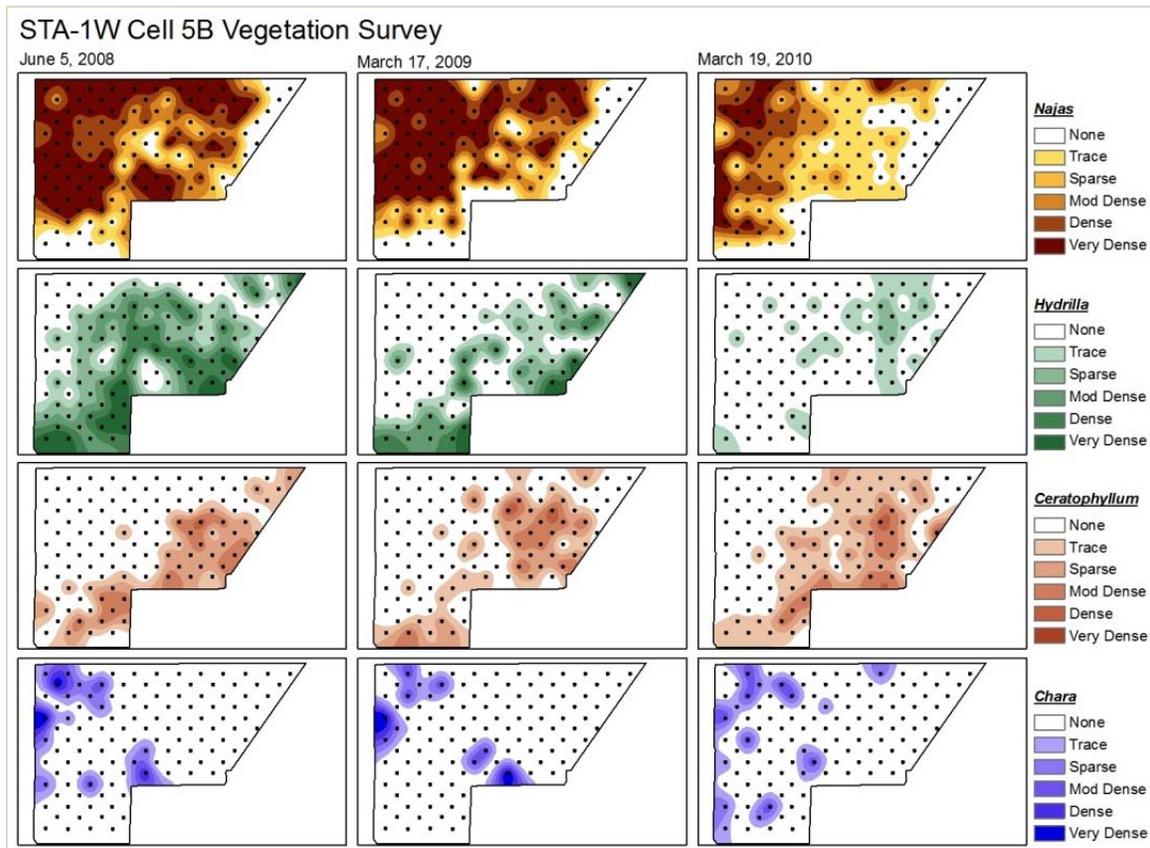


Figure 9. Changes in SAV cover in STA-1W, Cell 5B (June 2008–March 2010) compiled from field surveys conducted by the EAA-EPD. Darker colors represent higher vegetation densities. The flow direction is right to left through the cell.

Legend Notes:

None – no SAV present (0 percent)

Trace – strands of SAV (0-1 percent)

Sparse – patchy, small beds (1-10 percent)

Moderately dense – semi-continuous, moderate to small beds (10-40 percent)

Dense – continuous beds (40-80 percent)

Very Dense – continuous thick beds (>80 percent)

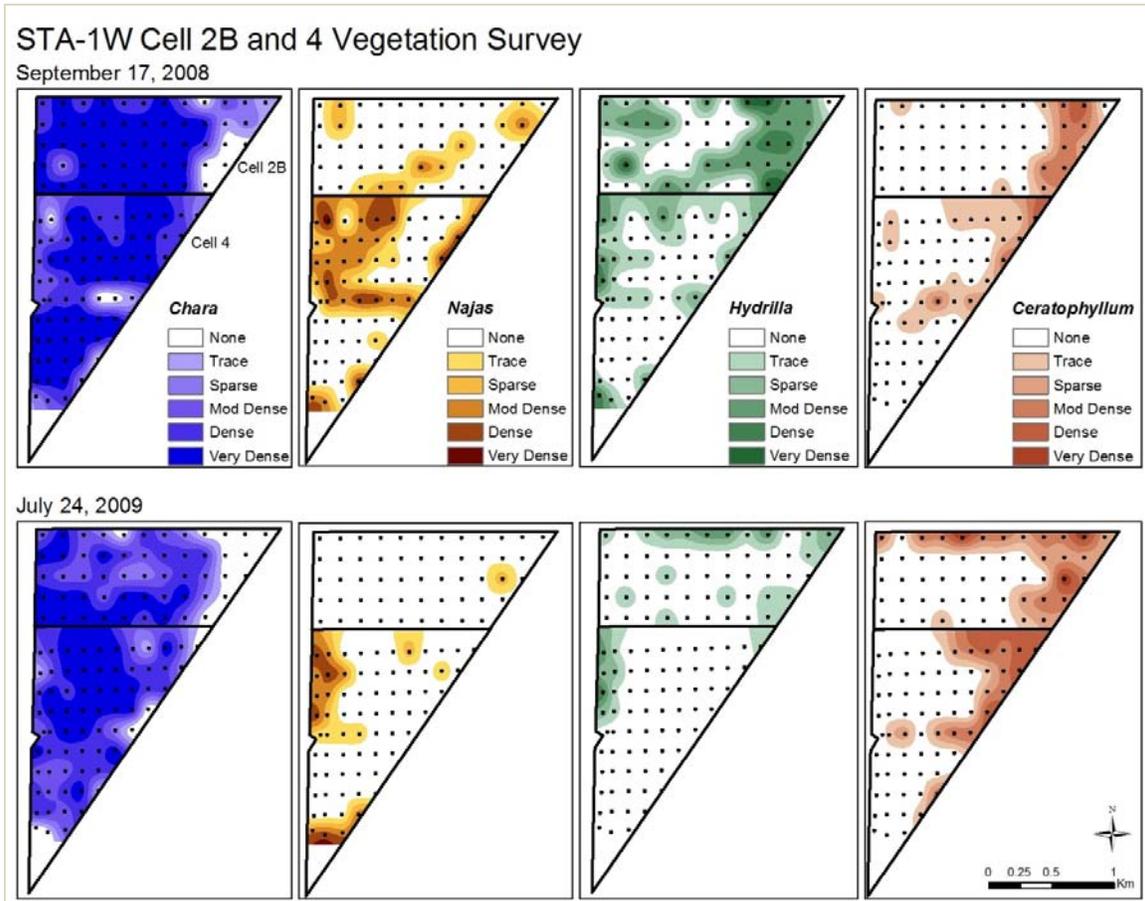


Figure 10. Changes in SAV cover in STA-1W, Cells 2B and 4 (September 2008–July 2009) compiled from field surveys conducted by the EAA-EPD. The flow direction is from top to bottom within the cells.

Legend Notes:

- None – no SAV present (0 percent)
- Trace – strands of SAV (0-1 percent)
- Sparse – patchy, small beds (1-10 percent)
- Moderately dense – semi-continuous, moderate to small beds (10-40 percent)
- Dense – continuous beds (40-80 percent)
- Very Dense – continuous thick beds (>80 percent)

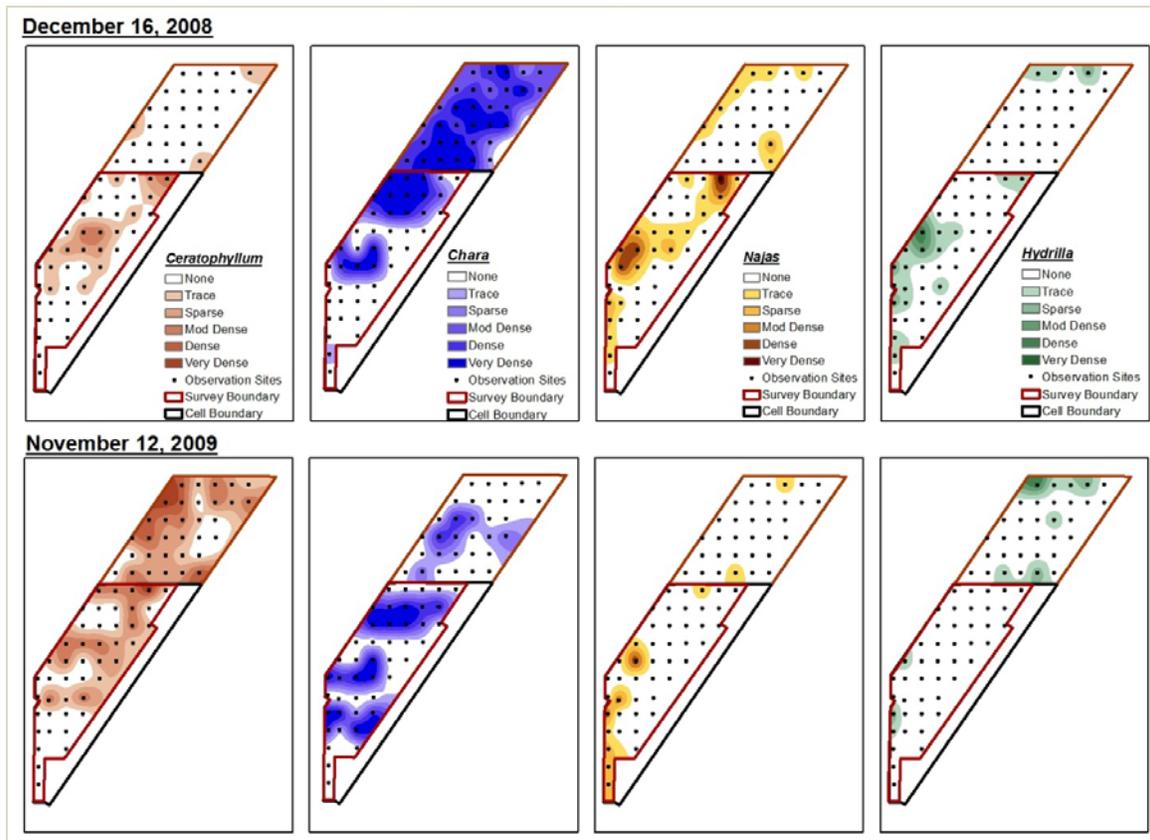


Figure 11. Changes in SAV cover in STA-1W, Cells 1B and 3 (December 2008–November 2009) compiled from field surveys conducted by the EAA-EPD. The flow direction is from top to bottom within the cells.

Legend Notes:

- None – no SAV present (0 percent)
- Trace – strands of SAV (0-1 percent)
- Sparse – patchy, small beds (1-10 percent)
- Moderately dense – semi-continuous, moderate to small beds (10-40 percent)
- Dense – continuous beds (40-80 percent)
- Very Dense – continuous thick beds (>80 percent)

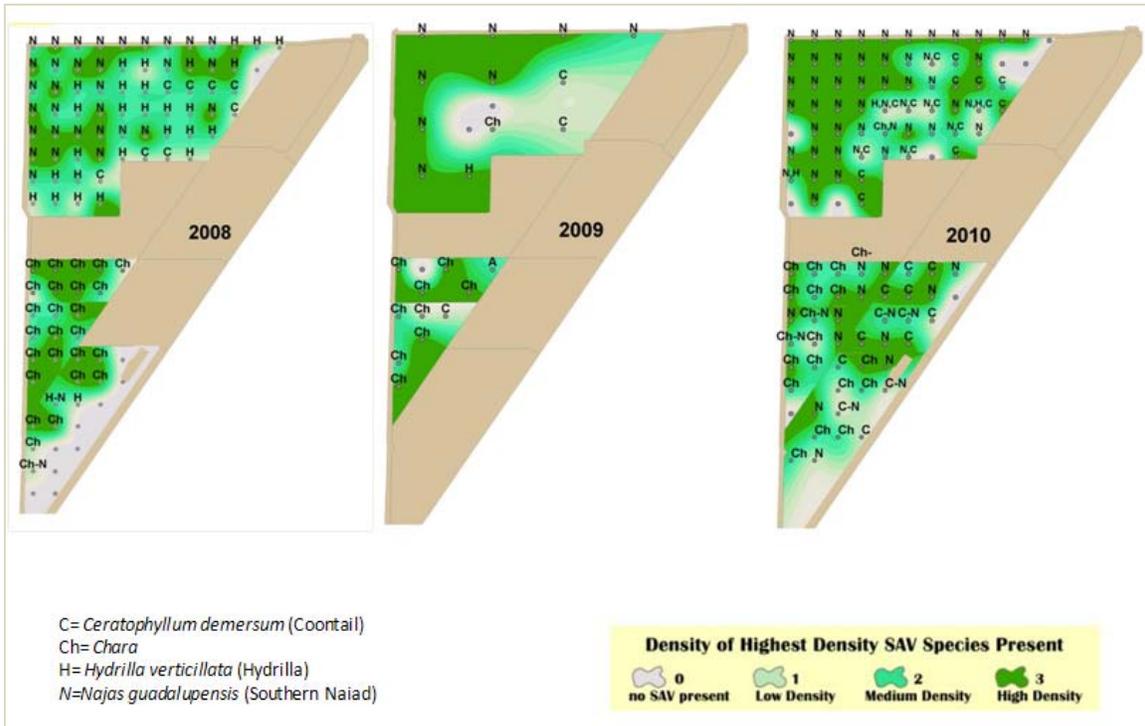


Figure 12. SAV vegetation survey maps for STA-1W, Cells 2B, 4, and 5B (July 2008, October 2009, and May 2010) compiled by the SFWMD.
 Low Density indicates SAV presence up to 33 percent;
 Medium Density indicates SAV presence about 34–66 percent;
 High Density indicates SAV presence about 67–100 percent.

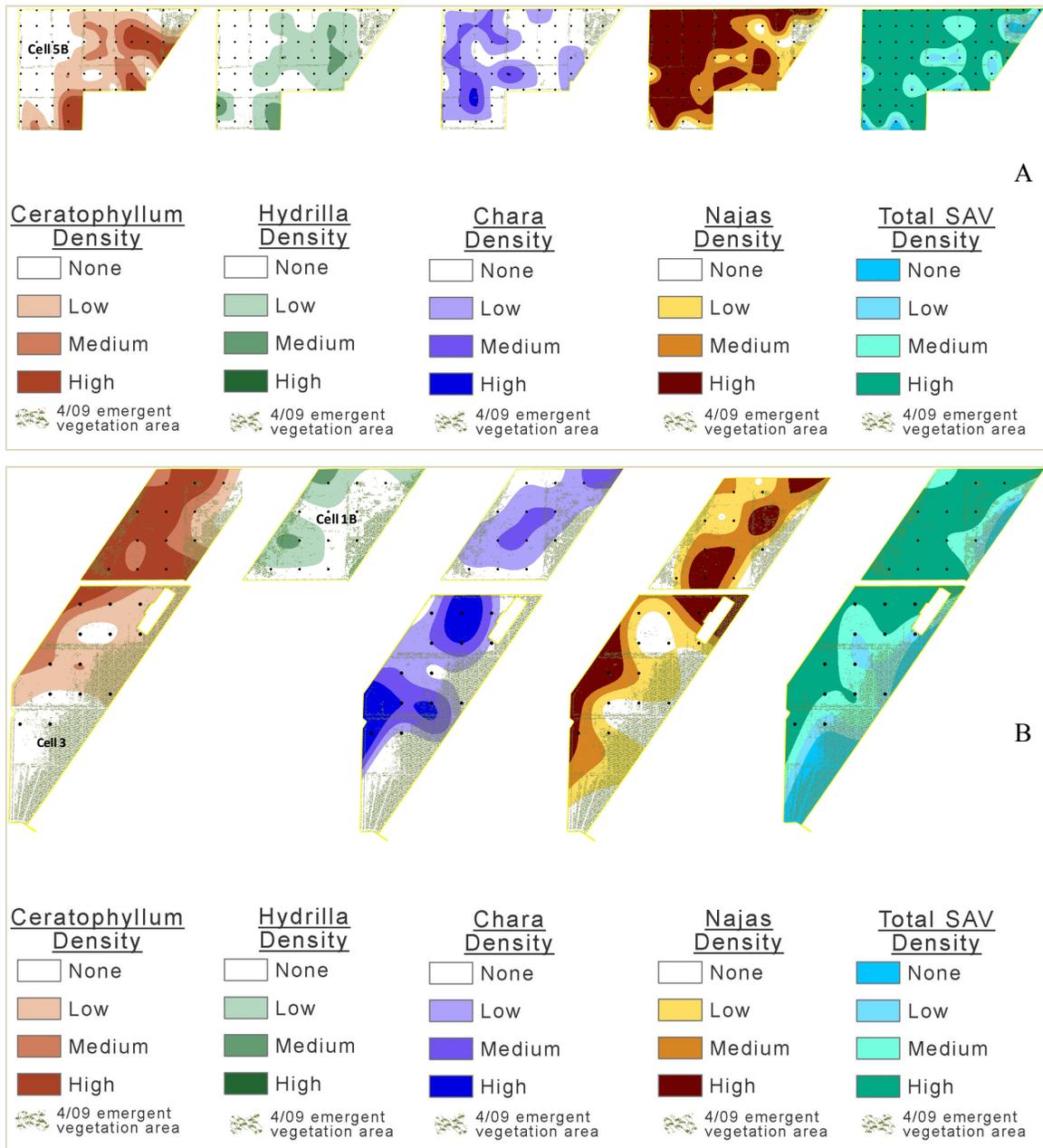


Figure 13. SAV vegetation survey maps for (A) STA-1W, Cell 5B (May 19, 2010) and (B) Cells 1 and 3 (April 30, 2010). Compiled by the SFWMD.

Low Density indicates SAV presence up to 33 percent;
 Medium Density indicates SAV presence about 34–66 percent;
 High Density indicates SAV presence about 67–100 percent.

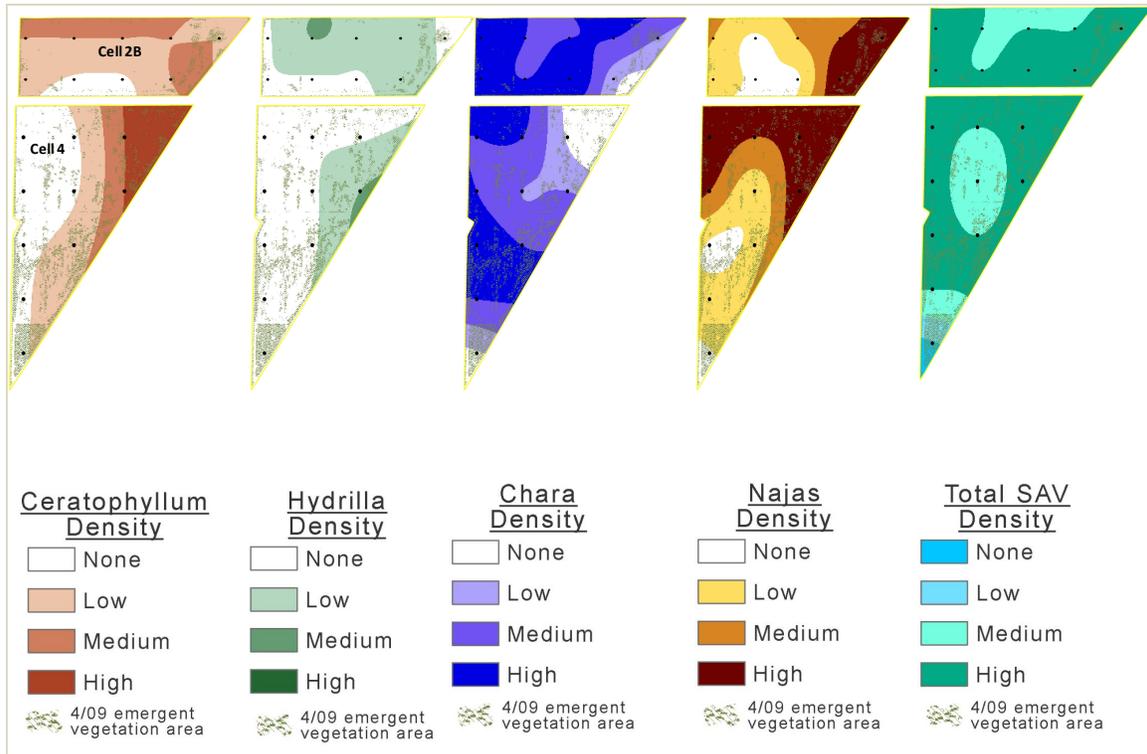


Figure 14. SAV vegetation survey maps for STA-1W, Cells 2B and 4 (April 27, 2010). Compiled by the SFWMD.

Low Density indicates SAV presence up to 33 percent.
 Medium Density indicates SAV presence about 34–66 percent;
 High Density indicates SAV presence about 67–100 percent.

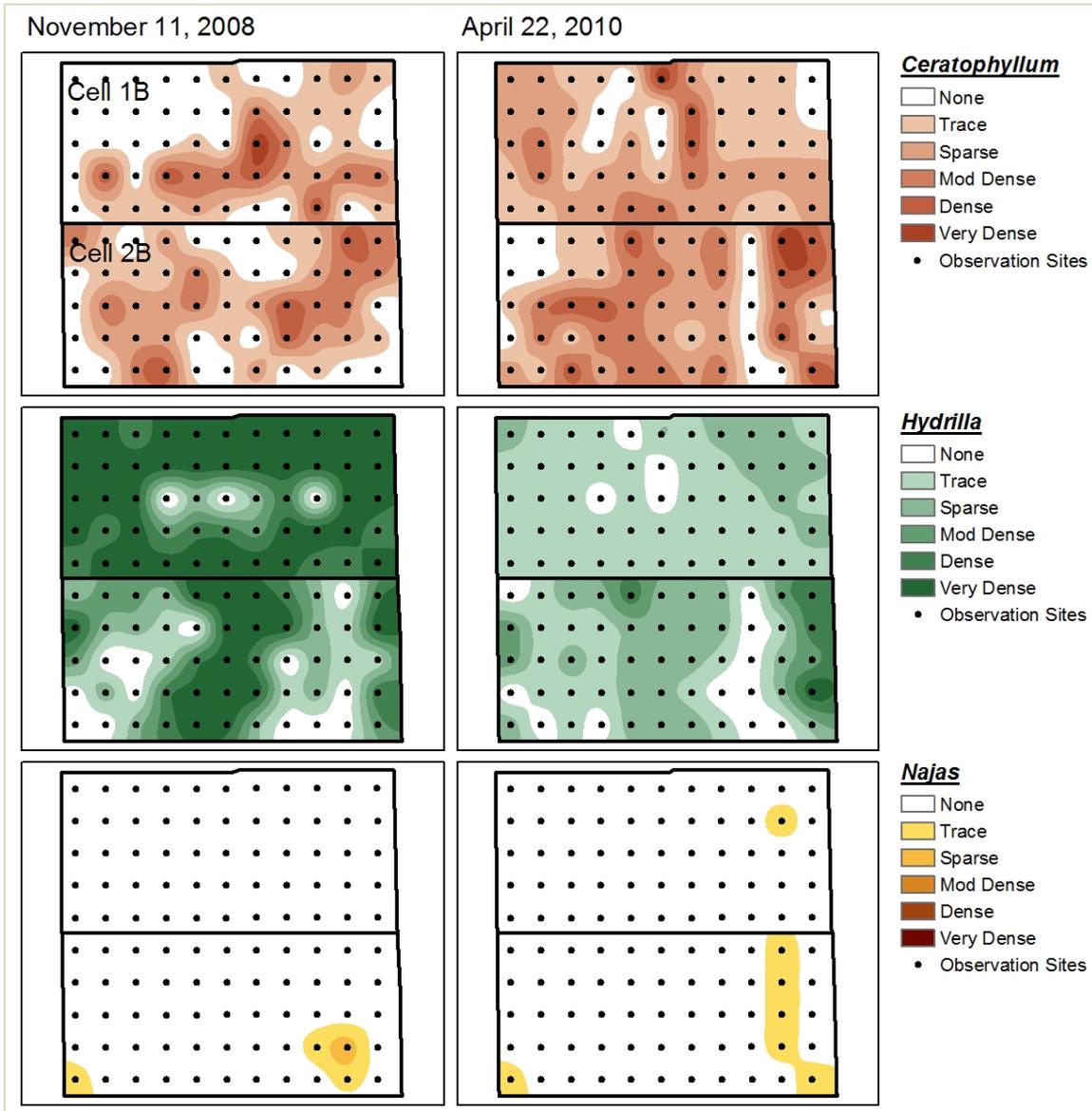


Figure 15. Changes in SAV cover in STA-5 (November 2008–April 2010) compiled from field surveys conducted by the EAA-EPD. These schematics depict the “back-end” cells of the northern (Cell 1B) and central (Cell 2B) flow paths. The flow direction is left to right within each cell.

Legend Notes:

- None – no SAV present (0 percent)
- Trace – strands of SAV (0-1 percent)
- Sparse – patchy, small beds (1-10 percent)
- Moderately dense – semi-continuous, moderate to small beds (10-40 percent)
- Dense – continuous beds (40-80 percent)
- Very Dense – continuous thick beds (>80 percent)

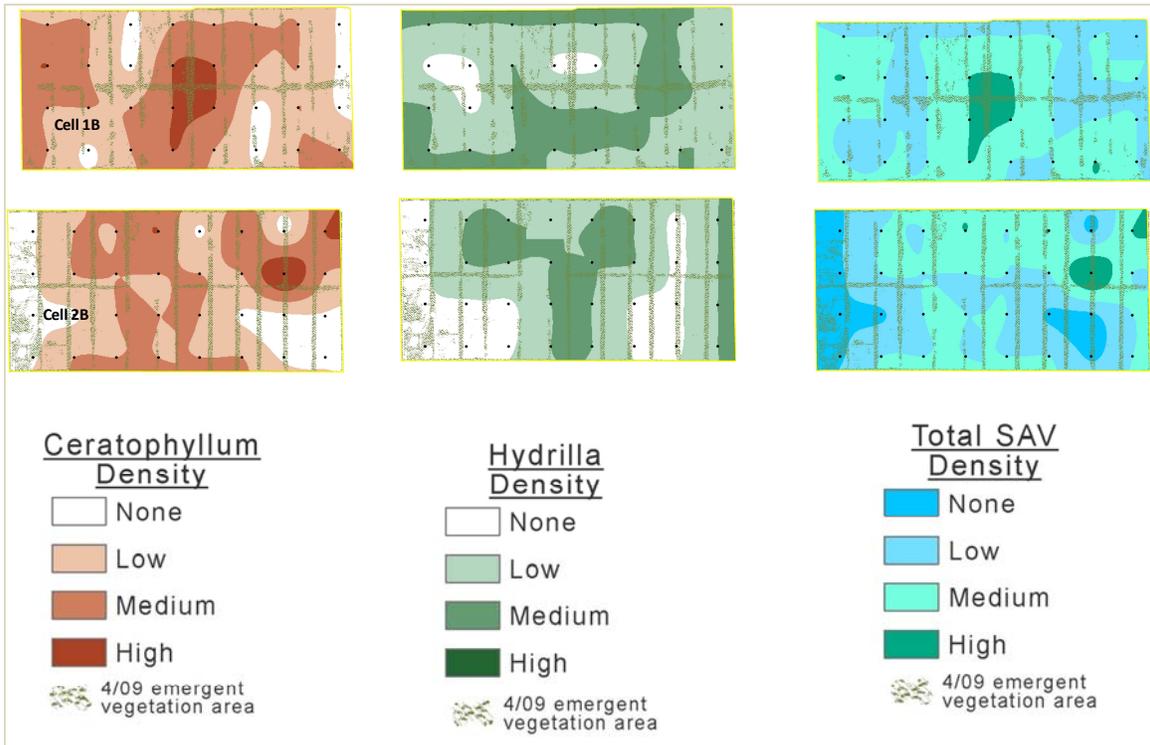


Figure 16. SAV vegetation survey maps for STA-5, Cell 1B (March 30-31, 2010) and in Cell 2B (April 1, 2010) compiled by the SFWMD.
 Low Density indicates SAV presence up to 33 percent;
 Medium Density indicates SAV presence about 34–66 percent;
 High Density indicates SAV presence about 67–100 percent.